

**CLAIMS**

1. A total temperature measurement probe for an aircraft, comprising a base (1), an external face (2) of which is intended to be mounted so as to be substantially coplanar with a skin of the aircraft, and a mast (3) that projects from the base (1) and supports an active part (4) of the probe, characterized in that it furthermore includes several temperature sensors placed on the external face of the base (1) and distributed around the mast (3).

2. The probe as claimed in claim 1, characterized in that the temperature sensors (6 to 9) are thermally insulated from the external face (2) of the base (1).

3. The probe as claimed in either of the preceding claims, characterized in that it includes at least three temperature sensors (6 to 9).

4. A method of determining temperature by means of a total temperature probe as claimed in claim 1, characterized in that the total temperature of the air surrounding the probe is determined on the basis of the temperature measurement carried out in the active part (4) of the probe and on the basis of the maximum difference that exists between the measurements made by the temperature sensors (6 to 9).

5. The method as claimed in claim 4, characterized in that the total temperature of the air surrounding the probe is determined as a function of the speed of the air surrounding the probe.